

**NCR167 700-800 TRIALS, 2002**

**A) Summary of data recorded at multiple locations:**

Entry #	Pedigree	Grain Yld	Grain Yld	Grain Mst	Plant Popn.	Root Ldg		Ear Drop
		(q/ha)	(Rank)	(%)	(ha <sup>-1</sup> )	Stk Ldg (%)	(%)	(%)
1	NE40021/LH185	88.9	15	18.64	67186	1.4	22.4	0.0
2	NE40921/LH185	86.8	18	18.66	65829	4.0	29.0	0.0
3	NE41001/LH185	81.0	21.5	17.11	65666	2.6	24.5	0.6
4	IL999551/LH185	81.0	21.5	17.11	65666	2.6	24.5	0.6
5	IL999801/LH185	99.4	4	17.54	64476	2.2	25.0	0.3
6	IL999861/LH185	86.0	19	18.68	63057	2.3	21.1	0.6
7	PA96-26/LH185	68.4	25	19.72	68267	7.7	22.9	0.9
8	PA96-30/LH185	77.4	23	18.84	66385	5.7	23.1	1.0
9	PA96-36/LH185	69.0	24	17.65	66769	2.8	22.7	0.3
10	BSSS-DE-C3)-45-3-1-1-1/LH185	82.5	20	17.92	66387	4.1	19.5	0.6
11	BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185	92.5	12	18.06	67312	3.1	24.9	1.1
12	BS13(S)C7)-0008-1-1-1-1-1-1/LH185	100.6	3	17.06	66606	7.2	27.3	0.3
13	NE40341/LH198	96.0	7	17.72	65665	3.2	21.8	0.0
14	NE60491/LH198	96.9	6	17.36	68869	4.9	21.8	0.0
15	NE41551/LH198	93.0	10	18.98	67231	2.1	22.6	0.7
16	IL999471/LH198	92.8	11	16.70	65496	0.8	29.6	0.0
17	IL999773/LH198	90.3	13	17.56	64997	2.2	22.4	0.0
18	B97/B95)-054-1-1-1-1-1-1/LH198	90.0	14	18.87	67958	0.9	25.7	0.0
19	B97/B95)-085-1-1-1-1-1-1/LH198	94.7	9	19.37	69665	2.1	23.0	0.0
20	B97/B95)-094-1-1-1-1-1-1/LH198	95.9	8	18.56	65050	2.2	31.5	0.0
21	BSCB1(R)C12)-238-1-1-1-1/LH198	86.9	17	18.30	67039	1.9	25.6	0.0
22	Mo00:457-565/LH198	99.4	5	18.49	67505	2.1	34.0	0.0
23	LH198/LH185	101.1	1	16.13	66566	2.9	20.2	0.4
24	GH2547	100.7	2	17.45	69906	1.3	20.0	0.0
25	HC33/LH277	87.1	16	15.51	67155	1.3	9.2	0.3
	<b>Mean</b>	<b>89.5</b>		<b>17.92</b>	<b>66668</b>	<b>2.9</b>	<b>23.8</b>	<b>0.3</b>
	<b>LSD (0.05)</b>	<b>8.8</b>		<b>1</b>	<b>3613</b>	<b>3.7</b>	<b>10.2</b>	<b>0.9</b>
	<b>CV</b>	<b>9.8</b>		<b>5.4</b>	<b>6</b>	<b>117</b>	<b>33.8</b>	<b>150.5</b>

B) Comparison of individual entries to LH198/LH185 by location and across locations:

Entry #	Pedigree	Location	Grain Yld (q/ha)	Grain Yld (Rank)	Grain Mst (%)	Plant Popn. (ha <sup>-1</sup> )	Stk Ldg (%)	Root Ldg (%)	Ear Drop (%)
1	NE40021/LH185	Delaware	91.1	20.0	16.5	72852	2.5	0.0	0.0
1	NE40621/LH185	OH	98.0	6.0	19.2	63487	2.7		
1	NE40021/LH185	IL	77.5	17.0	21.2	72045	0.0		
1	NE40021/LH185	IA-Ames	86.3	18.0	22.0	66376	2.8	9.9	
1	NE40021/LH185	IA-Carroll	78.8	16.0	23.9	68768	0.0	94.8	
1	NE40021/LH185	IA-Crfdvll	71.1	21.0	16.4	64582	1.9	7.4	
1	NE40021/LH185	NE	107.0	14.0	19.3	62597	0.0	0.0	0.0
1	NE40021/LH185	TX	101.7	4.0	10.7	66779			
<b>NE40021/LH185</b>			<b>88.9</b>	<b>14.5</b>	<b>18.6</b>	<b>67186</b>	<b>1.4</b>	<b>22.4</b>	<b>0.0</b>
<b>% of LH198/LH185</b>			<b>88.0</b>	<b>53.2</b>	<b>115.8</b>	<b>101</b>	<b>48.8</b>	<b>111.0</b>	<b>0.0</b>
2	NE40921/LH185	Delaware	94.5	15.0	17.1	70370	1.7	0.0	0.0
2	NE40921/LH185	OH	85.5	18.0	16.8	63487	13.5		
2	NE40921/LH185	IL	85.8	10.0	20.7	71527	3.6		
2	NE40921/LH185	IA-Ames	89.8	9.0	22.6	65180	3.7	14.4	
2	NE40921/LH185	IA-Carroll	66.0	23.0	23.9	65778	1.8	94.5	
2	NE40921/LH185	IA-Crfdvll	77.3	19.0	16.9	64582	2.9	36.0	
2	NE40921/LH185	NE	109.8	11.0	19.0	62597	0.7	0.0	0.0
2	NE40921/LH185	TX	85.3	17.0	12.4	63110			
<b>NE40921/LH185</b>			<b>86.8</b>	<b>15.3</b>	<b>18.7</b>	<b>65829</b>	<b>4.0</b>	<b>29.0</b>	<b>0.0</b>
<b>% of LH198/LH185</b>			<b>85.8</b>	<b>49.4</b>	<b>115.9</b>	<b>99</b>	<b>137.2</b>	<b>143.5</b>	<b>0.0</b>
3	NE41001/LH185	Delaware	97.2	13.0	15.9	69111	3.3	0.0	0.0
3	NE41001/LH185	OH	73.5	24.0	15.5	63487	8.8		
3	NE41001/LH185	IL	70.8	22.0	17.9	65825	0.0		
3	NE41001/LH185	IA-Ames	81.0	21.0	21.6	65180	4.6	15.6	
3	NE41001/LH185	IA-Carroll	71.7	19.0	22.4	72954	0.8	95.0	
3	NE41001/LH185	IA-Crfdvll	63.0	23.0	15.8	60396	0.0	10.8	
3	NE41001/LH185	NE	101.6	18.0	18.2	65695	0.6	1.1	1.2
3	NE41001/LH185	TX	88.9	15.0	9.7	62679			
<b>NE41001/LH185</b>			<b>81.0</b>	<b>19.4</b>	<b>17.1</b>	<b>65666</b>	<b>2.6</b>	<b>24.5</b>	<b>0.6</b>
<b>% of LH198/LH185</b>			<b>80.1</b>	<b>28.5</b>	<b>106.3</b>	<b>99</b>	<b>89.2</b>	<b>121.3</b>	<b>145.2</b>

Entry #	Pedigree	Location	Grain Yld (q/ha)	Grain Yld (Rank)	Grain Mst (%)	Plant Popn. (ha <sup>-1</sup> )	Stk Ldg (%)	Root Ldg (%)	Ear Drop (%)
4	IL999551/LH185	Delaware	101.0	10.0	16.5	73444	11.7	0.0	0.0
4	IL999551/LH185	OH	97.8	8.0	15.5	63487	4.1		
4	IL999551/LH185	IL	72.5	21.0	19.3	72045	0.0		
4	IL999551/LH185	IA-Ames	92.0	7.0	21.6	66376	6.3	25.1	
4	IL999551/LH185	IA-Carroll	73.4	18.0	21.8	72356	0.0	95.1	
4	IL999551/LH185	IA-Crfdvll	82.7	16.0	15.1	66974	7.1	32.2	
4	IL999551/LH185	NE	109.9	10.0	17.5	62597	0.6	3.8	0.7
4	IL999551/LH185	TX	98.3	6.0	9.8	56404			
	<b>IL999551/LH185</b>		<b>81.0</b>	<b>19.4</b>	<b>17.1</b>	<b>65666</b>	<b>2.6</b>	<b>24.5</b>	<b>0.6</b>
	<b>% of LH198/LH185</b>		<b>80.1</b>	<b>28.5</b>	<b>106.3</b>	<b>99</b>	<b>89.2</b>	<b>121.3</b>	<b>145.2</b>
5	IL999801/LH185	Delaware	109.4	4.0	17.1	69741	4.2	0.9	0.0
5	IL999801/LH185	OH	104.9	2.0	15.6	63487	2.0		
5	IL999801/LH185	IL	98.1	3.0	19.2	69453	1.4		
5	IL999801/LH185	IA-Ames	104.9	2.0	21.5	66974	1.8	3.6	
5	IL999801/LH185	IA-Carroll	92.1	9.0	23.1	71160	3.4	95.0	
5	IL999801/LH185	IA-Crfdvll	99.9	4.0	15.8	65180	1.8	25.7	
5	IL999801/LH185	NE	116.3	4.0	18.2	62597	0.6	0.0	0.6
5	IL999801/LH185	TX	69.4	25.0	10.0	47216			
	<b>IL999801/LH185</b>		<b>99.4</b>	<b>6.6</b>	<b>17.5</b>	<b>64476</b>	<b>2.2</b>	<b>25.0</b>	<b>0.3</b>
	<b>% of LH198/LH185</b>		<b>98.3</b>	<b>93.0</b>	<b>109.0</b>	<b>97</b>	<b>74.8</b>	<b>123.9</b>	<b>68.8</b>
6	IL999861/LH185	Delaware	110.0	2.0	17.4	67259	5.0	0.0	0.0
6	IL999861/LH185	OH	79.8	20.0	16.2	63487	5.4		
6	IL999861/LH185	IL	77.0	18.0	20.4	74636	2.8		
6	IL999861/LH185	IA-Ames	89.9	8.0	23.4	63984	2.8	4.5	
6	IL999861/LH185	IA-Carroll	67.5	22.0	25.1	69366	0.0	94.8	
6	IL999861/LH185	IA-Crfdvll	68.2	22.0	17.6	44849	0.0	6.0	
6	IL999861/LH185	NE	98.0	20.0	19.7	62985	0.0	0.0	1.2
6	IL999861/LH185	TX	97.2	7.0	9.7	57888			
	<b>IL999861/LH185</b>		<b>86.0</b>	<b>14.9</b>	<b>18.7</b>	<b>63057</b>	<b>2.3</b>	<b>21.1</b>	<b>0.6</b>
	<b>% of LH198/LH185</b>		<b>85.0</b>	<b>51.3</b>	<b>116.0</b>	<b>95</b>	<b>78.7</b>	<b>104.3</b>	<b>140.5</b>

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7	PA96-26/LH185	Delaware	96.8	14.0	18.2	69741	10.0	0.0	0.0
7	PA96-26/LH185	OH	63.6	25.0	19.3	63487	33.1		
7	PA96-26/LH185	IL	42.5	24.0	22.7	71527	1.5		
7	PA96-26/LH185	IA-Ames	64.7	25.0	24.5	66974	1.8	1.8	
7	PA96-26/LH185	IA-Carroll	49.7	25.0	24.9	69964	2.5	92.3	
7	PA96-26/LH185	IA-Crfdvllle	60.7	24.0	17.9	66974	3.5	16.9	
7	PA96-26/LH185	NE	78.7	25.0	20.6	60661	1.2	3.6	1.9
7	PA96-26/LH185	TX	90.4	13.0	9.7	76812			
	<b>PA96-26/LH185</b>		<b>68.4</b>	<b>21.9</b>	<b>19.7</b>	<b>68267</b>	<b>7.7</b>	<b>22.9</b>	<b>0.9</b>
	<b>% of LH198/LH185</b>		<b>67.6</b>	<b>15.8</b>	<b>122.5</b>	<b>103</b>	<b>264.1</b>	<b>113.5</b>	<b>221.0</b>
8	PA96-30/LH185	Delaware	86.0	23.0	17.4	70370	6.7	0.0	0.9
8	PA96-30/LH185	OH	80.3	19.0	17.7	63487	22.3		
8	PA96-30/LH185	IL	64.4	23.0	22.8	71527	1.4		
8	PA96-30/LH185	IA-Ames	76.6	23.0	22.3	65778	7.4	6.5	
8	PA96-30/LH185	IA-Carroll	69.2	21.0	24.1	70562	0.0	94.8	
8	PA96-30/LH185	IA-Crfdvllle	72.8	20.0	16.5	60994	1.8	8.4	
8	PA96-30/LH185	NE	84.8	23.0	19.2	63759	0.0	5.7	1.2
8	PA96-30/LH185	TX	84.8	18.0	10.7	64601			
	<b>PA96-30/LH185</b>		<b>77.4</b>	<b>21.3</b>	<b>18.8</b>	<b>66385</b>	<b>5.7</b>	<b>23.1</b>	<b>1.0</b>
	<b>% of LH198/LH185</b>		<b>76.5</b>	<b>19.0</b>	<b>117.0</b>	<b>100</b>	<b>195.1</b>	<b>114.2</b>	<b>238.7</b>
9	PA96-36/LH185	Delaware	85.3	24.0	16.4	71000	2.5	0.0	0.0
9	PA96-36/LH185	OH	78.8	21.0	14.8	63487	10.8		
9	PA96-36/LH185	IL	38.3	25.0	20.5	67380	1.6		
9	PA96-36/LH185	IA-Ames	75.9	24.0	21.7	66376	1.8	8.1	
9	PA96-36/LH185	IA-Carroll	58.9	24.0	23.1	67572	0.9	94.7	
9	PA96-36/LH185	IA-Crfdvllle	57.2	25.0	16.2	63386	0.0	6.5	
9	PA96-36/LH185	NE	84.5	24.0	18.4	64146	1.9	4.3	0.6
9	PA96-36/LH185	TX	73.4	22.0	10.3	70807			
	<b>PA96-36/LH185</b>		<b>69.0</b>	<b>23.6</b>	<b>17.7</b>	<b>66769</b>	<b>2.8</b>	<b>22.7</b>	<b>0.3</b>
	<b>% of LH198/LH185</b>		<b>68.3</b>	<b>7.0</b>	<b>109.6</b>	<b>100</b>	<b>96.4</b>	<b>112.5</b>	<b>68.8</b>

Entry #	Pedigree	Location	Grain Yld (q/ha)	Grain Yld (Rank)	Grain Mst (%)	Plant Popn. (ha <sup>-1</sup> )	Stk Ldg (%)	Root Ldg (%)	Ear Drop (%)
10	DE(BSSS)C3-45-3-1-1-1/LH185	Delaware	92.8	16.0	17.5	64815	8.4	0.0	0.0
10	BSSS-DE-C3)-45-3-1-1-1/LH185	OH	77.7	22.0	14.5	63487	8.1		
10	BSSS-DE-C3)-45-3-1-1-1/LH185	IL	89.1	8.0	19.7	75155	3.5		
10	BSSS-DE-C3)-45-3-1-1-1/LH185	IA-Ames	87.5	14.0	21.6	66974	1.8	0.9	
10	BSSS-DE-C3)-45-3-1-1-1/LH185	IA-Carroll	69.3	20.0	24.7	72954	1.6	92.6	
10	BSSS-DE-C3)-45-3-1-1-1/LH185	IA-Crfdvllc	84.7	14.0	16.0	62190	4.8	3.8	
10	BSSS-DE-C3)-45-3-1-1-1/LH185	NE	84.9	22.0	19.2	64921	0.6	0.0	1.2
10	BSSS-DE-C3)-45-3-1-1-1/LH185	TX	74.0	21.0	10.3	60603			
<b>BSSS-DE-C3)-45-3-1-1-1/LH185</b>			<b>82.5</b>	<b>17.1</b>	<b>17.9</b>	<b>66387</b>	<b>4.1</b>	<b>19.5</b>	<b>0.6</b>
<b>% of LH198/LH185</b>			<b>81.6</b>	<b>39.9</b>	<b>111.3</b>	<b>100</b>	<b>141.4</b>	<b>96.3</b>	<b>140.1</b>
11	BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185	Delaware	109.7	3.0	16.9	70963	5.0	0.0	1.7
11	BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185	OH	94.7	11.0	17.5	63487	12.8		
11	BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185	IL	81.2	12.5	20.5	74118	0.0		
11	BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185	IA-Ames	85.1	19.0	22.2	66974	0.9	12.5	
11	BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185	IA-Carroll	77.9	17.0	23.8	68170	1.8	94.7	
11	BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185	IA-Crfdvllc	84.3	15.0	15.9	66974	0.0	14.3	
11	BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185	NE	112.0	7.0	17.9	62210	1.2	3.1	0.6
11	BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185	TX	95.4	10.0	9.9	65598			
<b>BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185</b>			<b>92.5</b>	<b>11.8</b>	<b>18.1</b>	<b>67312</b>	<b>3.1</b>	<b>24.9</b>	<b>1.1</b>
<b>% of LH198/LH185</b>			<b>91.5</b>	<b>66.8</b>	<b>112.2</b>	<b>101</b>	<b>107.2</b>	<b>123.4</b>	<b>265.4</b>
12	BS13(S)C7)-0008-1-1-1-1-1-1/LH185	Delaware	109.3	5.0	15.9	69741	13.4	0.0	0.0
12	BS13(S)C7)-0008-1-1-1-1-1-1/LH185	OH	89.8	16.0	16.1	63487	25.0		
12	BS13(S)C7)-0008-1-1-1-1-1-1/LH185	IL	101.0	2.0	18.5	76191	3.4		
12	BS13(S)C7)-0008-1-1-1-1-1-1/LH185	IA-Ames	86.5	16.0	20.2	64582	3.8	1.8	
12	BS13(S)C7)-0008-1-1-1-1-1-1/LH185	IA-Carroll	90.3	12.0	22.8	64582	0.0	94.4	
12	BS13(S)C7)-0008-1-1-1-1-1-1/LH185	IA-Crfdvllc	103.3	1.0	16.1	63984	1.0	34.3	
12	BS13(S)C7)-0008-1-1-1-1-1-1/LH185	NE	120.1	1.0	17.6	63759	3.6	6.0	0.6
12	BS13(S)C7)-0008-1-1-1-1-1-1/LH185	TX	104.4	2.0	9.5	66520			
<b>BS13(S)C7)-0008-1-1-1-1-1-1/LH185</b>			<b>100.6</b>	<b>6.9</b>	<b>17.1</b>	<b>66606</b>	<b>7.2</b>	<b>27.3</b>	<b>0.3</b>
<b>% of LH198/LH185</b>			<b>99.5</b>	<b>91.8</b>	<b>106.0</b>	<b>100</b>	<b>246.9</b>	<b>135.1</b>	<b>70.0</b>

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13	NE40341/LH198	Delaware	107.5	6.0	16.2	69741	7.5	0.0	0.0
13	NE40341/LH198	OH	93.9	12.5	17.5	63487	6.1		
13	NE40341/LH198	IL	81.2	12.5	19.5	69453	0.0		
13	NE40341/LH198	IA-Ames	92.3	6.0	21.5	64582	5.6	2.8	
13	NE40341/LH198	IA-Carroll	99.3	3.0	22.4	68170	0.0	92.2	
13	NE40341/LH198	IA-Crfdvll	95.9	6.0	15.9	65778	1.8	12.7	
13	NE40341/LH198	NE	107.3	13.0	17.7	65695	1.1	1.2	0.0
13	NE40341/LH198	TX	90.3	14.0	11.1	58411			
	<b>NE40341/LH198</b>		<b>96.0</b>	<b>9.1</b>	<b>17.7</b>	<b>65665</b>	<b>3.2</b>	<b>21.8</b>	<b>0.0</b>
	<b>% of LH198/LH185</b>		<b>94.9</b>	<b>80.4</b>	<b>110.0</b>	<b>99</b>	<b>109.0</b>	<b>107.8</b>	<b>0.0</b>
14	LH198/NE60491	Delaware	99.7	11.0	16.5	71593	8.4	0.0	0.0
14	NE60491/LH198	OH	91.3	14.0	18.2	63487	7.4		
14	NE60491/LH198	IL	79.8	14.0	16.8	75155	5.6		
14	NE60491/LH198	IA-Ames	98.1	3.0	20.0	66974	2.7	2.7	
14	NE60491/LH198	IA-Carroll	98.4	5.0	22.3	72356	4.2	95.0	
14	NE60491/LH198	IA-Crfdvll	98.2	5.0	15.8	66376	5.3	10.8	
14	NE60491/LH198	NE	114.9	5.0	18.4	68018	0.5	0.6	0.0
14	NE60491/LH198	TX	94.8	12.0	11.1	66990			
	<b>NE60491/LH198</b>		<b>96.9</b>	<b>8.6</b>	<b>17.4</b>	<b>68869</b>	<b>4.9</b>	<b>21.8</b>	<b>0.0</b>
	<b>% of LH198/LH185</b>		<b>95.8</b>	<b>82.9</b>	<b>107.9</b>	<b>103</b>	<b>167.9</b>	<b>108.0</b>	<b>0.0</b>
15	NE41551/LH198	Delaware	87.8	22.0	15.7	69741	7.5	0.0	0.9
15	NE41551/LH198	OH	97.9	7.0	19.4	63487	1.4		
15	NE41551/LH198	IL	94.0	4.0	22.2	66862	0.0		
15	NE41551/LH198	IA-Ames	89.5	10.0	22.3	66376	5.5	8.1	
15	NE41551/LH198	IA-Carroll	90.8	11.0	24.3	70562	0.0	94.8	
15	NE41551/LH198	IA-Crfdvll	89.4	11.0	16.6	66974	0.0	8.1	
15	NE41551/LH198	NE	105.7	15.0	19.4	64533	0.6	1.8	0.6
15	NE41551/LH198	TX	88.6	16.0	12.1	69313			
	<b>NE41551/LH198</b>		<b>93.0</b>	<b>12.0</b>	<b>19.0</b>	<b>67231</b>	<b>2.1</b>	<b>22.6</b>	<b>0.7</b>
	<b>% of LH198/LH185</b>		<b>91.9</b>	<b>65.8</b>	<b>117.9</b>	<b>101</b>	<b>73.7</b>	<b>111.7</b>	<b>168.8</b>

Entry #	Pedigree	Location	Grain Yld (q/ha)	Grain Yld (Rank)	Grain Mst (%)	Plant Popn. (ha <sup>-1</sup> )	Stk Ldg (%)	Root Ldg (%)	Ear Drop (%)
16	IL999471/LH198	Delaware	91.4	19.0	15.1	72815	4.2	0.0	0.0
16	IL999471/LH198	OH	93.9	12.5	16.7	63487	1.4		
16	IL999471/LH198	IL	78.5	16.0	17.9	69453	0.0		
16	IL999471/LH198	IA-Ames	88.6	12.0	20.0	64582	0.0	5.3	
16	IL999471/LH198	IA-Carroll	89.5	13.0	21.5	61592	0.0	92.5	
16	IL999471/LH198	IA-Crfdvllc	88.8	13.0	15.3	65778	0.0	50.0	
16	IL999471/LH198	NE	114.6	6.0	16.5	60661	0.0	0.0	0.0
16	IL999471/LH198	TX	96.8	8.0	10.7	65598			
<b>IL999471/LH198</b>			<b>92.8</b>	<b>12.4</b>	<b>16.7</b>	<b>65496</b>	<b>0.8</b>	<b>29.6</b>	<b>0.0</b>
<b>% of LH198/LH185</b>			<b>91.7</b>	<b>63.6</b>	<b>103.8</b>	<b>98</b>	<b>27.1</b>	<b>146.3</b>	<b>0.0</b>
17	IL999773/LH198	Delaware	89.5	21.0	15.2	69111	5.0	0.9	0.0
17	IL999773/LH198	OH	95.6	10.0	18.0	63487	0.7		
17	IL999773/LH198	IL	72.9	20.0	20.7	67380	3.8		
17	IL999773/LH198	IA-Ames	78.8	22.0	20.9	65778	5.6	2.8	
17	IL999773/LH198	IA-Carroll	94.5	7.0	21.8	65778	0.0	94.5	
17	IL999773/LH198	IA-Crfdvllc	81.2	17.0	15.4	63386	0.0	13.0	
17	IL999773/LH198	NE	110.1	8.5	17.1	63372	0.0	0.6	0.0
17	IL999773/LH198	TX	100.0	5.0	11.6	61682			
<b>IL999773/LH198</b>			<b>90.3</b>	<b>13.8</b>	<b>17.6</b>	<b>64997</b>	<b>2.2</b>	<b>22.4</b>	<b>0.0</b>
<b>% of LH198/LH185</b>			<b>89.4</b>	<b>56.6</b>	<b>109.1</b>	<b>98</b>	<b>74.5</b>	<b>110.6</b>	<b>0.0</b>
18	B97/B95)-054-1-1-1-1-1-1/LH198	Delaware	92.1	17.0	16.8	73444	4.2	0.0	0.0
18	B97/B95)-054-1-1-1-1-1-1/LH198	OH	103.7	3.0	18.6	63487	0.0		
18	B97/B95)-054-1-1-1-1-1-1/LH198	IL	79.2	15.0	21.8	76191	0.0		
18	B97/B95)-054-1-1-1-1-1-1/LH198	IA-Ames	84.1	20.0	21.8	66974	1.8	26.8	
18	B97/B95)-054-1-1-1-1-1-1/LH198	IA-Carroll	82.5	14.0	23.4	74748	0.0	95.2	
18	B97/B95)-054-1-1-1-1-1-1/LH198	IA-Crfdvllc	88.9	12.0	16.3	62788	0.0	6.3	
18	B97/B95)-054-1-1-1-1-1-1/LH198	NE	116.4	3.0	18.3	62726	0.0	0.0	0.0
18	B97/B95)-054-1-1-1-1-1-1/LH198	TX	73.0	23.0	14.1	63305			
<b>B97/B95)-054-1-1-1-1-1-1/LH198</b>			<b>90.0</b>	<b>13.4</b>	<b>18.9</b>	<b>67958</b>	<b>0.9</b>	<b>25.7</b>	<b>0.0</b>
<b>% of LH198/LH185</b>			<b>89.0</b>	<b>58.9</b>	<b>117.2</b>	<b>102</b>	<b>29.3</b>	<b>127.0</b>	<b>0.0</b>

Entry #	Pedigree	Location	Grain Yld (q/ha)	Grain Yld (Rank)	Grain Mst (%)	Plant Popn. (ha <sup>-1</sup> )	Stk Ldg (%)	Root Ldg (%)	Ear Drop (%)
19	B97/B95)-085-1-1-1-1-1-1-1/LH198	Delaware	91.5	18.0	17.7	73444	6.7	0.0	0.0
19	B97/B95)-085-1-1-1-1-1-1-1/LH198	OH	99.6	5.0	20.1	63487	0.7		
19	B97/B95)-085-1-1-1-1-1-1-1/LH198	IL	88.8	9.0	22.0	77228	4.7		
19	B97/B95)-085-1-1-1-1-1-1-1/LH198	IA-Ames	86.7	15.0	22.6	66974	2.7	15.2	
19	B97/B95)-085-1-1-1-1-1-1-1/LH198	IA-Carroll	91.6	10.0	24.1	75346	0.0	95.3	
19	B97/B95)-085-1-1-1-1-1-1-1/LH198	IA-Crfdvllle	94.7	8.0	17.3	66974	0.0	4.5	
19	B97/B95)-085-1-1-1-1-1-1-1/LH198	NE	109.7	12.0	18.7	65308	0.0	0.0	0.0
19	B97/B95)-085-1-1-1-1-1-1-1/LH198	TX	95.2	11.0	12.5	68562			
	<b>B97/B95)-085-1-1-1-1-1-1-1/LH198</b>		<b>94.7</b>	<b>11.0</b>	<b>19.4</b>	<b>69665</b>	<b>2.1</b>	<b>23.0</b>	<b>0.0</b>
	<b>% of LH198/LH185</b>		<b>93.7</b>	<b>70.9</b>	<b>120.3</b>	<b>105</b>	<b>72.6</b>	<b>113.9</b>	<b>0.0</b>
20	B97/B95)-094-1-1-1-1-1-1-1/LH198	Delaware	119.0	1.0	16.7	71630	7.5	0.0	0.0
20	B97/B95)-094-1-1-1-1-1-1-1/LH198	OH	101.1	4.0	18.7	63487	0.0		
20	B97/B95)-094-1-1-1-1-1-1-1/LH198	IL	84.0	11.0	21.5	69453	2.3		
20	B97/B95)-094-1-1-1-1-1-1-1/LH198	IA-Ames	95.5	4.0	22.6	66974	5.3	34.9	
20	B97/B95)-094-1-1-1-1-1-1-1/LH198	IA-Carroll	95.2	6.0	23.5	72356	0.0	95.0	
20	B97/B95)-094-1-1-1-1-1-1-1/LH198	IA-Crfdvllle	94.5	9.0	16.0	66974	0.0	26.8	
20	B97/B95)-094-1-1-1-1-1-1-1/LH198	NE	97.0	21.0	18.0	64146	0.6	0.6	0.0
20	B97/B95)-094-1-1-1-1-1-1-1/LH198	TX	81.3	19.0	11.6	45377			
	<b>B97/B95)-094-1-1-1-1-1-1-1/LH198</b>		<b>95.9</b>	<b>9.4</b>	<b>18.6</b>	<b>65050</b>	<b>2.2</b>	<b>31.5</b>	<b>0.0</b>
	<b>% of LH198/LH185</b>		<b>94.9</b>	<b>79.1</b>	<b>115.3</b>	<b>98</b>	<b>77.0</b>	<b>155.7</b>	<b>0.0</b>
21	BSCB1(R)C12)-238-1-1-1-1-1/LH198	Delaware	77.5	25.0	16.1	68519	4.2	0.0	0.0
21	BSCB1(R)C12)-238-1-1-1-1-1/LH198	OH	75.6	23.0	19.2	63487	1.4		
21	BSCB1(R)C12)-238-1-1-1-1-1/LH198	IL	89.7	7.0	21.2	69453	4.5		
21	BSCB1(R)C12)-238-1-1-1-1-1/LH198	IA-Ames	88.2	13.0	21.6	63984	2.8	16.7	
21	BSCB1(R)C12)-238-1-1-1-1-1/LH198	IA-Carroll	92.9	8.0	22.4	71758	0.0	95.0	
21	BSCB1(R)C12)-238-1-1-1-1-1/LH198	IA-Crfdvllle	89.6	10.0	16.0	66974	0.0	16.1	
21	BSCB1(R)C12)-238-1-1-1-1-1/LH198	NE	103.6	17.0	17.9	66082	0.6	0.0	0.0
21	BSCB1(R)C12)-238-1-1-1-1-1/LH198	TX	77.9	20.0	12.1	66058			
	<b>BSCB1(R)C12)-238-1-1-1-1-1/LH198</b>		<b>86.9</b>	<b>15.4</b>	<b>18.3</b>	<b>67039</b>	<b>1.9</b>	<b>25.6</b>	<b>0.0</b>
	<b>% of LH198/LH185</b>		<b>85.9</b>	<b>48.7</b>	<b>113.7</b>	<b>101</b>	<b>66.0</b>	<b>126.5</b>	<b>0.0</b>

Entry #	Pedigree	Location	Grain Yld (q/ha)	Grain Yld (Rank)	Grain Mst (%)	Plant Popn. (ha <sup>-1</sup> )	Stk Ldg (%)	Root Ldg (%)	Ear Drop (%)
22	Mo00:457-565/LH198	Delaware	106.8	7.0	16.3	70370	7.5	0.0	0.0
22	Mo00:457-565/LH198	OH	96.9	9.0	17.5	63487	3.4		
22	Mo00:457-565/LH198	IL	90.5	6.0	21.6	74636	0.0		
22	Mo00:457-565/LH198	IA-Ames	86.5	16.0	22.0	66974	0.9	20.6	
22	Mo00:457-565/LH198	IA-Carroll	98.9	4.0	24.1	69366	0.0	94.8	
22	Mo00:457-565/LH198	IA-Crfdvllle	95.3	7.0	16.6	66974	1.8	45.5	
22	Mo00:457-565/LH198	NE	110.1	8.5	18.0	62210	1.1	9.0	0.0
22	Mo00:457-565/LH198	TX	110.4	1.0	11.9	66026			
	<b>Mo00:457-565/LH198</b>		<b>99.4</b>	<b>7.3</b>	<b>18.5</b>	<b>67505</b>	<b>2.1</b>	<b>34.0</b>	<b>0.0</b>
	<b>% of LH198/LH185</b>		<b>98.3</b>	<b>89.6</b>	<b>114.8</b>	<b>101</b>	<b>72.6</b>	<b>168.3</b>	<b>0.0</b>
23	LH198/LH185	Delaware	105.6	8.0	14.9	70370	10.0	0.0	0.9
23	LH198/LH185	OH	90.7	15.0	15.5	63487	2.7		
23	LH198/LH185	IL	91.1	5.0	15.8	73082	1.4		
23	LH198/LH185	IA-Ames	94.3	5.0	19.6	66376	5.5	2.7	
23	LH198/LH185	IA-Carroll	107.9	1.0	22.0	66376	0.8	95.5	
23	LH198/LH185	IA-Crfdvllle	100.4	3.0	14.8	65778	0.0	2.8	
23	LH198/LH185	NE	116.5	2.0	16.8	59564	0.0	0.0	0.0
23	LH198/LH185	TX	102.1	3.0	9.7	67493			
	<b>LH198/LH185</b>		<b>101.1</b>	<b>5.3</b>	<b>16.1</b>	<b>66566</b>	<b>2.9</b>	<b>20.2</b>	<b>0.4</b>
	<b>% of LH198/LH185</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
24	GH2547	Delaware	101.7	9.0	16.6	70370	1.7	0.0	0.0
24	GH2547	OH	110.4	1.0	15.1	63487	0.7		
24	GH2547	IL	103.1	1.0	19.5	73600	0.0		
24	GH2547	IA-Ames	105.9	1.0	21.3	66974	1.8	4.5	
24	GH2547	IA-Carroll	81.2	15.0	23.6	68170	1.9	94.7	
24	GH2547	IA-Crfdvllle	101.9	2.0	16.0	66974	2.7	0.9	
24	GH2547	NE	104.5	16.0	18.1	66857	0.6	0.0	0.0
24	GH2547	TX	96.5	9.0	9.6	82815			
	<b>GH2547</b>		<b>100.7</b>	<b>6.8</b>	<b>17.5</b>	<b>69906</b>	<b>1.3</b>	<b>20.0</b>	<b>0.0</b>
	<b>% of LH198/LH185</b>		<b>99.6</b>	<b>92.4</b>	<b>108.4</b>	<b>105</b>	<b>45.9</b>	<b>99.1</b>	<b>0.0</b>

Entry #	Pedigree	Location	Grain Yld (q/ha)	Grain Yld (Rank)	Grain Mst (%)	Plant Popn. (ha <sup>-1</sup> )	Stk Ldg (%)	Root Ldg (%)	Ear Drop (%)
25	HC33/LH277	Delaware	97.5	12.0	14.9	67296	3.4	0.0	0.0
25	HC33/LH277	OH	85.7	17.0	14.2	63487	0.7		
25	HC33/LH277	IL	75.9	19.0	13.4	78265	0.6		
25	HC33/LH277	IA-Ames	89.2	11.0	19.1	66974	0.9	0.0	
25	HC33/LH277	IA-Carroll	99.8	2.0	21.1	71758	0.9	45.3	
25	HC33/LH277	IA-Crfdvllle	77.4	18.0	14.7	65778	0.9	0.9	
25	HC33/LH277	NE	100.3	19.0	15.8	62210	1.8	0.0	0.6
25	HC33/LH277	TX	70.8	24.0	10.9	61475			
<b>HC33/LH277</b>			<b>87.1</b>	<b>15.3</b>	<b>15.5</b>	<b>67155</b>	<b>1.3</b>	<b>9.2</b>	<b>0.3</b>
<b>% of LH198/LH185</b>			<b>86.1</b>	<b>49.4</b>	<b>96.3</b>	<b>101</b>	<b>45.3</b>	<b>45.7</b>	<b>68.8</b>
Delaware			Mean	98.0	16.4	70314	6.1	0.1	0.2
			LSD (0.05)	Not avail.	Not avail.	Not avail.	Not avail.	Not avail.	Not avail.
			CV	Not avail.	Not avail.	Not avail.	Not avail.	Not avail.	Not avail.
OH			Mean	89.7	17.4	63847	7.8		
			LSD (0.05)	25.1	2.4	0	14.1		
			CV	13.5	6.9	0	91.2		
IL			Mean	80.3	19.8	72067	1.7		
			LSD (0.05)	32.8	2.4	7319	2.7		
			CV	19.8	5.8	5	77.6		
IA-Ames			Mean	87.9	21.6	66089	3.2	9.9	
			LSD (0.05)	15.4	1.2	3047	6.9	19.0	
			CV	8.5	2.6	2	104.3	93.0	
IA-Carroll			Mean	83.5	23.2	69701	0.8	92.5	
			LSD (0.05)	22.9	1.3	10003	2.9	26.6	
			CV	13.3	2.8	7	177.6	13.9	
IA-Crfdvllle			Mean	84.8	16.1	64343	1.5	16.0	
			LSD (0.05)	14.9	1.0	8525	4.0	24.9	
			CV	8.5	3.0	6	128.3	75.7	

		<b>Grain Yld</b>	<b>Grain Yld</b>	<b>Grain Mst</b>	<b>Plant Popn.</b>	<b>Stk Ldg</b>	<b>Root Ldg</b>	<b>Ear Drop</b>
		<b>(q/ha)</b>	<b>(Rank)</b>	<b>(%)</b>	<b>(ha<sup>-1</sup>)</b>	<b>(%)</b>	<b>(%)</b>	<b>(%)</b>
NE	Mean	102.0		18.3	63596	0.7	1.6	0.5
	LSD (0.05)	26.0		1.1	5813	2.3	5.2	1.6
	CV	15.6		3.7	6	204.5	200.6	209.0
TX	Mean	89.6		10.8	64085			
	LSD (0.05)	27.4		2.1	11901			
	CV	14.9		9.7	9			

C) Summary of data recorded at a single location:

Entry #	Pedigree	Location 1	RindP (load-kg plant <sup>-1</sup> )	VRtPull	Ear Lf Area cm <sup>2</sup>	Location 2	Ear Ht cm	Test Wt kg hl <sup>-1</sup>
1	NE40021/LH185	MO	4.7	304.7	804.0	TX	61.0	71.6
2	NE40921/LH185	MO	3.9	272.0	782.7	TX	59.7	74.7
3	NE41001/LH185	MO	4.5	281.3	776.0	TX	64.8	66.5
4	IL999551/LH185	MO	3.8	303.3	845.2	TX	63.5	69.4
5	IL999801/LH185	MO	4.1	254.0	858.7	TX	52.1	70.4
6	IL999861/LH185	MO	4.3	249.3	891.4	TX	91.4	70.7
7	PA96-26/LH185	MO	4.1	311.0	805.0	TX	67.3	70.4
8	PA96-30/LH185	MO	4.1	288.7	704.1	TX	64.8	71.2
9	PA96-36/LH185	MO	4.2	275.0	759.2	TX	80.0	71.1
10	BSSS-DE-C3)-45-3-1-1-1/LH185	MO	4.1	291.3	841.6	TX	64.8	69.6
11	BS13(S)C6)-7884-1-1-1-1-1-1-1-1-1-1/LH185	MO	4	291.7	791.7	TX	81.3	71.5
12	BS13(S)C7)-0008-1-1-1-1-1-1/LH185	MO	3.8	289.0	765.7	TX	87.6	68.4
13	NE40341/LH198	MO	4.2	281.3	815.1	TX	97.8	76.3
14	NE60491/LH198	MO	3.5	276.7	809.8	TX	91.4	75.8
15	NE41551/LH198	MO	3.9	281.7	763.5	TX	92.7	74.7
16	IL999471/LH198	MO	3.8	288.3	781.8	TX	88.9	74.7
17	IL999773/LH198	MO	3.9	287.3	916.8	TX	77.5	74.9
18	B97/B95)-054-1-1-1-1-1-1-1/LH198	MO	4.3	248.0	773.9	TX	87.6	77.9
19	B97/B95)-085-1-1-1-1-1-1-1-1/LH198	MO	4.5	311.7	827.8	TX	91.4	79.1
20	B97/B95)-094-1-1-1-1-1-1-1-1/LH198	MO	4	262.7	830.5	TX	97.8	78.2
21	BSCB1(R)C12)-238-1-1-1-1-1/LH198	MO	4	289.0	812.3	TX	82.6	81.2
22	Mo00:457-565/LH198	MO	4	279.7	817.3	TX	77.5	75.5
23	LH198/LH185	MO	4.2	297.0	896.4	TX	87.6	70.3
24	GH2547	MO	4	252.0	824.6	TX	68.6	70.1
25	HC33/LH277	MO	3.9	242.0	784.2	TX	57.2	72.1
	B73 × Mo17 Check	MO	3.7	298.3	874.0	TX		
	MoSCSSS(H24-HRP)C14 RPR Check	MO	8.6	266.7	637.0	TX		
	<b>Mean</b>	<b>MO</b>	<b>4.2</b>	<b>280.5</b>	<b>807.0</b>	<b>TX</b>	<b>77.5</b>	<b>73.1</b>
	<b>LSD (0.05)</b>	<b>MO</b>	<b>0.4</b>	<b>ns</b>	<b>80.8</b>	<b>TX</b>	<b>18.2</b>	<b>1.5</b>
	<b>CV</b>	<b>MO</b>	<b>6.2</b>	<b>12.2</b>	<b>6.1</b>	<b>TX</b>	<b>11.6</b>	<b>1.1</b>